



Health  
Canada Santé  
Canada

Your health and  
safety... our priority.

Votre santé et votre  
sécurité... notre priorité.

Proposed Maximum Residue Limit

PMRL2011-07

# Flonicamid

*(publié aussi en français)*

**22 March 2011**

This document is published by the Health Canada Pest Management Regulatory Agency. For further information, please contact:

Publications  
Pest Management Regulatory Agency  
Health Canada  
2720 Riverside Drive  
A.L. 6604-E2  
Ottawa, Ontario K1A 0K9

Internet: [pmra.publications@hc-sc.gc.ca](mailto:pmra.publications@hc-sc.gc.ca)  
[healthcanada.gc.ca/pmra](http://healthcanada.gc.ca/pmra)  
Facsimile: 613-736-3758  
Information Service:  
1-800-267-6315 or 613-736-3799  
[pmra.infoserv@hc-sc.gc.ca](mailto:pmra.infoserv@hc-sc.gc.ca) K1A 0K9

**Canada**

ISSN: 1925-0835 (print)  
1925-0843 (online)

Catalogue number: H113-24/2011-7E (print version)  
H113-24/2011-7E-PDF (PDF version)

© Her Majesty the Queen in Right of Canada, represented by the Minister of Health Canada, 2011

All rights reserved. No part of this information (publication or product) may be reproduced or transmitted in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, or stored in a retrieval system, without prior written permission of the Minister of Public Works and Government Services Canada, Ottawa, Ontario K1A 0S5.

Under the authority of the *Pest Control Products Act*, Health Canada's Pest Management Regulatory Agency (PMRA) has received applications to register technical grade flonicamid and the end-use product Beleaf 50SG Insecticide for use in Canada on a variety of agricultural crops.

The evaluation of these flonicamid applications indicated that the end-use product has merit and value and the human health and environmental risks associated with its proposed uses are acceptable. Details regarding these applications can be found in Proposed Registration Decision PRD2010-25, *Flonicamid*.

Before registering a pesticide for food use in Canada, the PMRA must determine the quantity of residues that are likely to remain in or on the food when the pesticide is used according to label directions and that such residues will not be a concern to human health. This quantity is then legally established as a maximum residue limit (MRL). An MRL applies to the identified raw agricultural food commodity as well as to any processed food product that contains it, except where separate MRLs are specified for the raw agricultural commodity and a processed product made from it.

Consultation on the proposed MRLs for flonicamid was conducted domestically via PRD2010-25. Information regarding the proposed MRLs is found in Section 3.5.4 and supporting field trial residue data are provided in Appendix I, Table 5 of the Proposed Registration Decision.

To comply with Canada's international trade obligations, consultation on the proposed MRLs is also being conducted internationally by notifying the World Trade Organization, as coordinated by the Standards Council of Canada.

The proposed MRLs for flonicamid in Canada in or on food are as follows.

**Table 1 Proposed Maximum Residue Limits for Flonicamid**

| Common Name | Residue Definition  | MRL (ppm) | Food Commodity  |
|-------------|---|-----------|---|
| Flonicamid  | <i>N</i> -(cyanomethyl)-4-(trifluoromethyl)-3-pyridinecarboxamide, including the metabolites 4-trifluoromethylnicotinic acid, <i>N</i> -(4-trifluoromethylnicotinoyl) glycine and 4-trifluoromethylnicotinamide | 16        | Leafy Brassica greens (Crop Subgroup 5B), radish tops   |
|             |   | 9.0       | Spinach   |
|             |   | 7.0       | Hops  |
|             |   | 4.0       | Leafy vegetables, except Brassica (Crop Group 4; except spinach)  |
|             |   | 2.0       | Tomato paste  |
|             |   | 1.5       | Head and stem Brassica (Crop Subgroup 5A)   |
|             |   | 0.6       | Root vegetables, except sugarbeets (Crop Subgroup 1B), stone fruits (Crop Group 12-09)                    |
|             |   | 0.5       | Tomato puree  |
|             |   | 0.4       | Fruiting vegetables (Crop Group 8-09), cucurbit vegetables (Crop Group 9), potato flakes, potato granules |
|             |   | 0.2       | Tuberous and corm vegetables (Crop Subgroup 1C), pome fruits (Crop Group 11-09)                           |
|             | <i>N</i> -(cyanomethyl)-4-(trifluoromethyl)-3-pyridinecarboxamide, including the metabolites 4-trifluoromethylnicotinic acid and 4-trifluoromethylnicotinamide  | 0.08      | Meat and meat byproducts of cattle, goats, horses and sheep   |
|             |   | 0.03      | Fat of cattle, goats, horses and sheep; milk  |

MRLs are proposed for each commodity included in the listed crop groupings in accordance with the Residue Chemistry Crop Groups webpage in the Pesticides and Pest Management section of Health Canada's website.

A complete list of all MRLs established in Canada can be found on the Maximum Residue Limits for Pesticides webpage in the Pesticides and Pest Management section of Health Canada's website.

### **International Situation and Trade Implications**

The proposed MRLs for flonicamid in Canada are the same as corresponding tolerances established in the United States (tolerances are listed in the Electronic Code of Federal Regulations, 40 CFR Part 180, by pesticide). However, note that American tolerances are established for Crop Groups 8, 11 and 12 whereas Canadian MRLs are being proposed for the expanded Crop Groups 8-09, 11-09 and 12-09. Therefore, Canadian MRLs are being proposed for a number of commodities without corresponding American tolerances.

Currently, Codex Alimentarius MRLs<sup>1</sup> have not been established for flonicamid on any commodity. A listing of all established Codex MRLs is available on the Codex Alimentarius Pesticide Residues in Food website.

---

<sup>1</sup> The Codex Alimentarius Commission is an international organization under the auspices of the United Nations that develops international food standards, including MRLs.